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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/010,193	12/06/2001	Hideki Tsuchida	51334	2589	
75	90 05/27/2003				
EDWARDS & ANGELL, LLP Dike, Bronstein, Roberts & Cushman, IP Group P.O. Box 9196			EXAMINER KRUER, KEVIN R		
			1773	1	
			DATE MAILED: 05/27/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

a . •					A.S				
		Application No.	,	Applicant(s)					
	_	10/010,193		TSUCHIDA ET AL.					
Office Action S	Summary	Examiner		Art Unit					
		Kevin R Kruer		1773					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTO THE MAILING DATE OF TH - Extensions of time may be available after SIX (6) MONTHS from the mail - If the period for reply specified above - If NO period for reply is specified above - Failure to reply within the set or exte - Any reply received by the Office later earned patent term adjustment. See Status	HIS COMMUNICATIO under the provisions of 37 CFF ing date of this communication. It is less than thirty (30) days, a ove, the maximum statutory pended period for reply will, by stort han three months after the m	N. R 1.136(a). In no event, howe reply within the statutory min riod will apply and will expire atute, cause the application to	ever, may a reply be tim imum of thirty (30) days SIX (6) MONTHS from b become ABANDONE	ely filed s will be considered timely. the mailing date of this communic O (35 U.S.C. § 133).	cation.				
1) Responsive to comm	nunication(s) filed on _	·							
2a) This action is FINAL	. 2b)⊠	This action is non-fi	nal.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
4)⊠ Claim(s) <u>1-11'</u> is/are	pending in the applica	tion.		·					
4a) Of the above clain	n(s) is/are with	drawn from consider	ation.						
5) Claim(s) is/are allowed.									
6)⊠ Claim(s) <u>1-11</u> is/are rejected.									
7)☐ Claim(s) is/are objected to.									
· · · · · · · · · · · · · · · · · · ·	8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers	•	,							
9) The specification is ob	jected to by the Exam	niner.							
10) The drawing(s) filed or	n is/are: a)∐ a	ccepted or b)☐ object	ed to by the Exar	niner.					
Applicant may not requ	uest that any objection to	o the drawing(s) be hel	d in abeyance. Se	ee 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected	drawings are required ir	n reply to this Office ac	tion.						
12) The oath or declaration	n is objected to by the	Examiner.							
Priority under 35 U.S.C. §§ 11	9 and 120		•						
13) Acknowledgment is m	nade of a claim for fore	eign priority under 35	U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)⊡ Some * c)☐ None of:								
1.⊠ Certified copies	of the priority docum	ents have been rece	ived.						
2. Certified copies	of the priority docum	ents have been rece	ived in Application	on No					
3. Copies of the c	ertified copies of the p from the International	oriority documents ha Bureau (PCT Rule 1	ive been receive 7.2(a)).	d in this National Stage	1				
14) Acknowledgment is ma			-		cation).				
a) ☐ The translation of 15)☐ Acknowledgment is ma	the foreign language	provisional application	on has been rec	eived.	ŕ				
Attachment(s)		•	50						
Notice of References Cited (PTO 2) Notice of Draftsperson's Patent E 3) Information Disclosure Statemen	Prawing Review (PTO-948)			(PTO-413) Paper No(s) latent Application (PTO-152)					
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office	e Action Summary		Part of Paper No. 9					

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SUPPLEMENTAL OFFICE ACTION

This action is a supplemental office action, and supersedes the rejections made in the non-final office action mailed March 3, 2003. Applicant's period for reply has been reset as detailed in the attached Office Action Summary. The preliminary amendments made September 04, 2004 have been entered and have been fully considered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

While applicant may be his or her own lexicographer, a term in a claim may not be given a meaning repugnant to the usual meaning of that term. See *In re Hill*, 161 F.2d 367, 73 USPQ 482 (CCPA 1947). The term "metal element" in claim 1 is used by the claim to mean "a metal or metal compound," while the accepted meaning is "a substance which cannot be further divided by chemical methods."

Furthermore, claim 1 recites "the ratio of the surface resistivity of said resin composite material to the resistivity of said component containing metal element..." However, the claim fails to state a ratio.

In claim, the units of the claimed resistivities are indefinite.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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.(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Quinn et al (US 3,642,584). Quinn teaches a plastic substrate that is plated with a metal by pretreating the substrate with phosphorous sesquisulfide (herein relied upon to read on the claimed "ion exchange group introduction agent") in an organic solvent to deposit phosphorus sesquisulfide at the surface, followed by contacting the treated surface with a metal salt or complex thereof, to form a metal-phosphorus-sulfur compound and then with a solution of an alkali metal hydroxide or carbonate or ammonium hydroxide or a non-oxidizing mineral acid (abstract). The resulting treated surface is conductive (abstract). The metal is selected from the group consisting of copper, silver, gold, chromium, vanadium, tantalum, cadmium, tungsten, molybdenum, and the like (col 3, lines 39+). The plastic substrate may comprise phenol resins, polypropylene resins, epoxy resins, or ABS (col 1, lines 65+). NOTE: With respect to claim 3, the "metal element" in Quinn is metal.

Quinn teaches that the layer may be conductive, but does not teach the desired level of conductivity on the surface. However, it would have been obvious to one of ordinary skill in the art to select the metal element and to vary the amount of metal element deposited on the substrate in order to obtain the desired level of conductivity. The examiner takes the position that one would necessarily change the "ratio of the resin composite material to the resistivity of said component containing metal element" with the selection of the metal element and by varying the amount of metal element deposited.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin R Kruer whose telephone number is 703-305-0025. The examiner can normally be reached on Monday-Friday from 7:00a.m. to 4:00p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau, can be reached on (703) 308-2367. The fax phone number for the organization where this application or proceeding is assigned is 703-305-5408.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

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Paul Thibodeau Supervisory Patent Examiner Technology Center 1700

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